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FEB 22 1989

Loma Linda University

Loma Linda University Medical Center

Adventist Health System / Loma Linda

TODAY

February 22, 1989

Volume 2, Number 4



French scientist Etienne-Emile Baulieu (right) chats with Elmar Sakala, MD, assistant professor of obstetrics and gynecology in the School of Medicine and chief of obstetrics, LLUMC (left), and Gerald Winslow, PhD, professor of ethics, School of Religion.

French discoverer of RU486 presents ethics colloquium at LLU

Approximately 20 LLU faculty and others recently met with French scientist Etienne-Emile Baulieu, originator of the drug, RU486, which has many medical uses. Its most controversial use is abortion, which it causes by preventing implantation in the uterus or by causing the implanted embryo to be expelled.

Before coming to Loma Linda, Dr. Baulieu attended meetings at the University of California, San Diego, where the RU486 drug is under investigation. It has not yet been approved by the FDA as a prescription drug. It has, however, been approved by the French government for use by gynecologists in France.

Brian Bull, MD, chairman of the Ethics Center board, and professor and chairman of the department of pathology, LLU School of Medicine, arranged for the Loma Linda meeting. In attendance were participants in the Clinical Intensive in Biomedical Ethics program sponsored by the LLU Ethics Center, as well as faculty from the Schools of Medicine and Religion.

In France, the drug is used to abort pregnancies up to seven weeks of gestation, although it is an effective abortive drug at any time during pregnancy. More than 10,000 French women have been treated with the RU486, reports Dr. Baulieu, who made the discovery while working on the topic of progesterone receptors. Dr. Baulieu is a member of the Institute de France, Science Academy, the most prestigious scientific organization in France.

Dr. Baulieu coined the phrase "contragestion" to describe the unique action of the drug which effects a chemical, rather than a mechanical, or surgical, abortion.

Dr. Baulieu believes RU486 may be the best way to evacuate the uterus if fetal demise has taken place. The drug acts by stimulating uterine contractions and by making the uterine lining inhospitable to an embryo.

Elmer Sakala, MD, assistant professor of obstetrics and gynecology, School of Medicine, and chief of obstetrics, LLUMC, was one of the LLU physicians

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Trustees vote not to consolidate La Sierra and Loma Linda campuses

The Loma Linda University Board of Trustees, meeting in an all day session on Monday, February 13, voted to discontinue

plans to unify the La Sierra campus on the Loma Linda campus.

By a 23 to 1 count, the Trustees voted to "terminate con-

sideration of consolidation as a viable option for Loma Linda University."

In a separate 22 to 6 vote, the Trustees voted to "establish a group representing the General Conference of Seventh-day Adventists, the Seventh-day Adventist Board of Higher Education, the faculties of the affected schools, the University administration, and the Pacific Union Conference to consider the possibility of operating a viable 'single university' on two campuses and also the option offered by the Pacific Union Conference for a separate corporation for ownership, operation, and control of the La Sierra campus."

This vote concludes two years of planning and discussion on unifying the two campuses at Loma Linda. Proposed in 1986 and approved by the Trustees, the unification plan would have consolidated La Sierra campus programs at Loma Linda by the mid-1990s.

After reviewing "all relative information," the University Trustees "determined that it does not now have available sufficient financial and land use information" to make unification a viable

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The Loma Linda University and Loma Linda University Medical Center Board of Trustees held a banquet on Monday, February 13, honoring retiring trustees chairman Wallace O. Coe. Pastor Coe, a native of New York, has served as chairman of the University and Medical Center Boards for the past four years. Pastor Coe began church service in 1946 in the Georgia-Cumberland Conference of Seventh-day Adventists. In succeeding years, he served as president of several conferences and unions including the Alabama-Mississippi and Florida conferences; and the Northern, Central, and Columbia Union conferences. During his years of service to the Seventh-day Adventist church, Pastor Coe has served on 19 hospital boards, four college boards, and two university boards. Pastor Coe and his wife, Hazel, have two children and six grandchildren.

Dr. Andreassen named new Religion dean

The Loma Linda University Board of Trustees named Niels-Erik A. Andreassen, PhD, as the new dean of the School of Religion effective September 1, 1989.

Dr. Andreassen replaces Kenneth Vine, PhD, dean of the School of Religion, who is retiring.

A native of Denmark, Dr. Andreassen lived in Denmark until age 19, studied in England for three years and immigrated to the United States in 1963.

Dr. Andreassen received his bachelor of arts degree in religion and history from Newbold College in England in 1963; his master degree in Biblical studies from Andrews University, Berrien Springs, Michigan, in 1965; a bachelor of divinity degree from Andrews University in 1966; and a doctor of philosophy degree in religious studies from Vanderbilt University, Nashville, Tennessee, in 1971.

He began his teaching career in



Dr. and Mrs. Niels-Erik A. Andreassen

1970 at Pacific Union College, Angwin, as an assistant, and later, or associate professor of religion.

In 1977, Dr. Andreassen joined Loma Linda University's religion staff as professor of Old Testament and associate dean of the School of Religion.

Dr. Andreassen has served as a visiting lecturer at several overseas institutions including Central American Union Col-

lege, Costa Rica; Hong Kong Adventist College, Hong Kong; Antillian College, Puerto Rico; Newbold College, England; Himmerlandsgaarden, Denmark; Seminaire Adventiste du Saleve, France; Theologische Seminar Marienhoehe, Germany; and Longburn College, New Zealand.

In addition to having authored three books — *The Old Testament Sabbath, Rest and Redemption*, and

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In Brief

Domino's Pizza delivers community support, February 18 and week of February 20 to 26

On Saturday, February 18, the Blood Mobile of San Bernardino will be parked at the Domino's Pizza store in Grand Terrace (22583 Barton Road) between 11 a.m. and 4 p.m., and on Monday, February 20, it will be parked at Domino's Pizza in Loma Linda (11215 Mountain View Avenue) between 10 a.m. and 7 p.m. On those days, Domino's Pizza will give a free, 12-inch, one-item pizza to persons who donate a pint of blood (use the appropriate coupon at the right).

During the week of February 20 to 26, Domino's Pizza will donate to the LLUMC's Children's Hospital Fund \$2 for every 16-inch pizza and \$1 for every 12-inch pizza that is ordered using the coupons at the right. The coupons are good for delivery or carry-out at the Loma Linda (796-6845) and the Grand Terrace (783-3030) stores only (limited delivery area).

"Altered Sexuality and Psychosexual Adjustment to Long-term Illness," February 28

"Altered Sexuality and Psychosexual Adjustment to Long-term Illness" will be held on Tuesday, February 28, from 8 a.m. to 8 p.m., in Medical Center room 4002. The class will be presented by Perry Knecht, oncology social worker, and Janet Kroetz, head nurse II, vascular and urological surgery, LLUMC. Their presentation will include an exploration of issues concerning sexual function and body-image changes related to long-term illness and altered sexuality consequent to medical treatment. The therapeutic role of the nurse and social worker will be considered and examined in relationship to helping the patient and / or significant others cope with and adapt to psychosexual challenges consequent to medical treatment. The class is provided by LLPMGI, under Provider #049621. It is free to all Internal Medicine employees. A \$5 fee will be charged to all others. Two C.E. hours are available. Refreshments will be served. To sign up, call 796-4840 prior to February 23.

CPR classes, March 2 and 23; CPR recertification, February 23 and March 9 and 30

CPR classes will be held on March 2 and 23, and CPR recertification classes are scheduled for February 23 and March 9 and 30 at Life Support Education, Mt. View Plaza, 11155 Mt. View, Suite 215. Classes are available by appointment only. Call 824-4402.

Calimesa Community Concert Series presents Dino, March 18

The Calimesa Community Concert Series will present Dino on Saturday, March 18, at 7:30 p.m., at the Calimesa Seventh-day Adventist Church, corner of 4th and Myrtlewood Drive. Dino combines great piano classics, sacred hymns, and contemporary Christian songs. The language he speaks on the piano is ageless and without boundaries.

Inland Empire Symphony Orchestra to feature Berlioz, Rachmaninov, and Beethoven, March 18

The Inland Empire Symphony Orchestra will present "A Little Romance," with Conductor Robert Henderson and Pianist James Barbagalo, on Saturday, March 18, at 8:15 p.m., at the California Theatre of Performing Arts, 562 West Fourth Street, San Bernardino. The concert will feature Berlioz: le Corsaire Overture; Rachmaninov: Piano Concerto No. 2; and Beethoven: Symphony No. 3. Ticket prices range from \$10 to \$25.

Salvation Army Hospitality House (homeless shelter) in need of household items

The Salvation Army Hospitality House (homeless shelter) is in need of a variety of household items, such as pots, pans, serving dishes, bedspreads, pillows, pillow cases, blankets, hand towels, face towels, tablecloths, and mattress pads. Persons who can assist with these needs may call 888-1336.



Health advisors who attended the pre-professional advisors workshop included (from left) Barry Fowler, Madison Academy; John Pangman, Andrews University; Wayne Judd, Loma Linda University; Ralph Perrin, Walla Walla College; Wally Fox, Georgia-Cumberland Academy; Marcy Woolsey, Southern College; Stephen Nyirady, Southern College; Carol Wheeler, Union College; Arthur Chadwick, Southwestern Adventist College; Ava Rivers, Oakwood College; Betty Howard, Columbia Union College; Iris Landa, Loma Linda University; Don Abbey, Canadian Union College; Bill Chobotar, Andrews University; Earl Aagaard, Pacific Union College; Marvella Beyer, Loma Linda University; Irwin Dulan, Fresno Academy; and Gerald Wasmer, Atlantic Union College.

Pre-professional Advisors Workshop is a success

Faculty advisors of pre-professional students from 11 North American Seventh-day Adventist colleges and three SDA academies attended a workshop at Loma Linda University from January 27 to 31. LLU faculty from the Schools of Allied Health Professions, Dentistry, Medicine, Public Health, and the

Graduate School presented up-to-date information about health-related fields. The advisors learned about the various health programs offered at LLU, the prerequisites that will best prepare students to enter these fields, and career opportunities.

Wally Fox, a physical education and health science teacher


at Georgia-Cumberland Academy in Calhoun, Georgia, states, "The workshop was just fantastic. We learned so much and got to see so many things at Loma Linda. I think I am now much better prepared to help students who are thinking about pursuing health-related careers."



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TODAY AT LLUMC

Viviane Ringoot is counselor for individual, family, and group therapy

Viviane J. Ringoot, a licensed marriage, family and child therapist, has recently been named individual, family, and group therapy counselor at the Loma Linda University Faculty Medical Offices.

Ms. Ringoot, a 1982 graduate of the marriage, family, and child therapy program of Loma Linda University's Graduate School, will be providing services to help patients and their families deal with the psycho-social stressors



Ms. Ringoot

they are experiencing as a result of their medical problems.

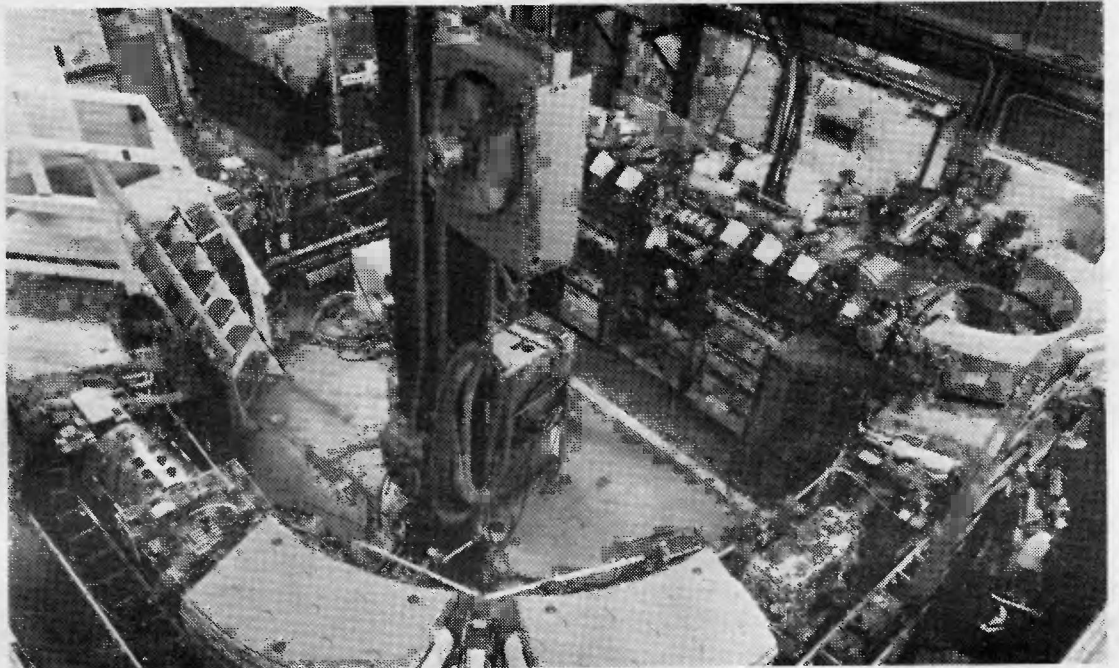
"I will be conducting individual, family, group therapy, and crisis intervention counseling," Ms. Ringoot says. "One of my goals is to expand my treatment interventions to include a wholistic approach to treating patients. It's important to examine a patient not only physically, but also emotionally, psychologically, and spiritually."

This is the first time such a service has been offered through the Faculty Medical Offices, according to Ms. Ringoot. Prior to this time, patients and their families wishing counseling were referred elsewhere.

In addition, Ms. Ringoot will be providing counseling services for staff and community.

Before initiating the services at the Faculty Medical Offices, Ms. Ringoot was a social services practitioner for the department of public social services in Riverside county. She also maintains a private practice in Redlands.

Individuals wishing to contact Ms. Ringoot may do so by phoning 796-4890 or 825-1600.



Loma Linda University Medical Center's new proton accelerator for the treatment of cancer has been built by the U.S. Department of Energy's Fermi National Accelerator Laboratory in Batavia, Illinois. The 5-ton, 250-million-electron-volt machine, called a synchrotron, is shown here as it is being installed on January 2 for testing at Fermilab. Nearly full energy was achieved on the first test, January 10. Operational tests will continue until next summer, when the accelerator will be disassembled and transported to Loma Linda.

Breakthrough in cancer control

Proton accelerator achieves full-energy tests leading way to new era in cancer treatment

Commissioning of the world's first proton accelerator conceived, designed and built to serve the medical needs of patients was completed on Tuesday, February 14, leading to a new era in health care.

The accelerator, built for Loma Linda University Medical Center by the Fermi National Accelerator Laboratory, will allow physicians to eliminate most of the side effects commonly associated with conventional cancer treatments, as well as provide a significant advance in the control and management of cancer.

When testing is completed, the accelerator will be shipped in sections to the new \$40 million proton beam cancer treatment center at Loma Linda. Care for patients at this international center will begin in the spring of 1990.

The new cancer center will serve as a model, research, demonstration and treatment center for the emerging new technology of proton beam therapy and its application for treating cancer and other human diseases.

"Proton beam therapy is a significant application of 40 years of research in high energy physics, and represents one of the most valuable technology transfers in the past quarter century," said James M. Slater, MD, director of radiology and LLUMC project director for the proton beam cancer treatment center.

"With cancer afflicting about 25 percent of all Americans, this

new cancer treatment modality holds promise, hope and proven results for eliminating the fear and reducing the hopelessness of many of these patients and their families. LLUMC anticipates treating patients from around the

nation and the world, many of whom will be involved in national clinical trials to extend the knowledge and benefits of proton therapy," Dr. Slater said.

The proton accelerator now
Please turn to page 4



Tadeusz Gorski, MD (right), a visiting Polish oncologist and epidemiologist, looks at some data on research being done by Robert Teel, PhD (left), LLU professor of physiology and pharmacology, on an anticancer substance (ellagic acid) found in certain foods. Dr. Gorski also is doing research in this field.

Dr. Teel hosts noted Polish oncologist / epidemiologist at LLU

A noted Polish oncologist and epidemiologist doing research on an anti-cancer substance in certain foods was a visitor at Loma Linda in January.

Tadeusz Gorski, MD, head of the Institute of Hygiene in Lodz in central Poland, spent three weeks in January in the laboratory of Robert Teel, PhD, professor of physiology and pharmacology at Loma Linda University. Dr. Gorski, who received his medical training in Leningrad, Soviet Russia, learned of Dr. Teel after reading an abstract of a paper that Dr. Teel submitted in

1986 to the International Cancer Congress, held that year in Budapest, Hungary.

Although Dr. Teel was unable to attend the congress, Dr. Gorski wrote to him because of their shared interest in anticancer substances in foods. Dr. Gorski later indicated his desire to visit the United States, and Dr. Teel extended an invitation to him to visit Loma Linda.

Support for Dr. Gorski's trip came from the International Union Against Cancer, which has its headquarters in Geneva.

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Dr. James M. Slater (left), director for LLUMC's proton-therapy-facility project, and Ron Anderson (right), LLUMC senior vice-president, express thanks to Jerry Fiddler, president and chief executive officer of Wind River Systems, Inc., who donated more than \$70,000 worth of computer software for the project.

Wind River Systems donates over \$70,000 in software to proton project

Loma Linda University Medical Center's pioneering proton-therapy-facility project has received computer software valued at more than \$70,000 from Wind River Systems, Inc., headquartered in Emeryville, California.

In a donation ceremony held at the Medical Center on January 20, Loma Linda officials said that, after evaluating offerings from a number of vendors, they chose Wind River's VxWorks real-time operating system to develop com-
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Proton accelerator achieves full-energy tests at Fermilab in Illinois...

Continued from page 3

completing its final tests at Fermilab is the world's smallest variable-energy proton synchrotron and is designed to deliver a sufficient beam of energy to reach the deepest tumors in the most obese patients and destroy or arrest the cancerous tumor. The new therapy will be particularly valuable in treating all localized or solid tumors, tumors detected prior to their spreading throughout the body.

"The vital benefit of proton therapy is that the proton beam energy can be delivered at a precisely imaged volume and dispense its energy at that region without seriously harming healthy surrounding tissues or adjacent vital organs," reports Dr. Slater. "With reduced fear of side effects, individuals may more easily seek early detection methods, and benefit more fully from the possibilities of proton beam therapy."

Synchrotrons were invented in the 1950s to produce higher energy projectiles for the study of subnuclear matter. "The Fermilab proton synchrotron, designed and constructed for LLUMC, is a quintessential example of technology spin-off from abstract basic research to both humanitarian and economic utility," reports Fermilab director Dr. Leon M. Lederman.

Dr. Lederman, who was awarded the Nobel Prize for physics in 1988, says: "The principles of the accelerator are precisely those invented in order to advance the quest to understand nature. These new medical benefits now available to patients grew out of Fermilab's long-term experience in its neutron therapy facility. With this experience, medical experts recognized the great potential of protons. Fermilab organized a series of workshops bringing together oncologists, accelerator designers and radiation physicists, leading to the Loma Linda-Fermilab collaboration. Today, the success of commissioning of the Loma Linda accelerator owes much to Fermilab's accelerator scientists led by Philip V. Livdahl, J. Ritchie Orr and Jack McCarthy."

Proton-beam therapy differs greatly from today's conventional forms of radiation therapy. If given in sufficient doses, conventional irradiation controls many cancers. But, because of the physician's inability to conform the irradiation to the cancer, healthy tissues also receive a similar dose and are damaged. Consequently, a less-than-optimal dose is frequently used in order to reduce unacceptable damage to healthy tissues, and subsequent side effects.

In 1989, more than one million Americans will be diagnosed as having cancer.

Within five years, about half of them may be dead. Some die because the disease spreads to distant vital organs, such as the lungs, liver or brain. Others, about 100,000 every year, die because the local tumor interferes with vital functions, such as breathing, eating, digestion and elimination of wastes. If the cancer is eradicated at its place of origin, however, many deaths can be prevented in both groups.

Proton-beam therapy introduces greater selectivity in destroying cancer cells, reduces damage to surrounding healthy tissue, and greatly reduces the side-effects traditionally associated with radiation treatment.

"The development of the medical-centered proton beam cancer treatment center at LLUMC will rank with the development of mega-voltage X-rays as a therapeutic tool, and may help design and build a segment of the foundation for 21st century medicine," says Dr. Slater.

Protons deposit nearly all their energy at the end of their desired path and cause very little lateral secondary scatter. Tissues upstream from the target receive only a small dose, and those to the sides of and behind the target receive virtually none. The energy given the protons by the accelerator controls their depth of penetration. Proton beams, therefore, deposit nearly all their energy on target. Physicists call the point of energy release the Bragg peak.

The guidance system to deliver the beam to its target was developed by scientists at LLU Radiation Research Laboratories and the Lawrence Berkeley laboratory.

The high precision of this system allows the radiation oncologist to increase the dose to the tumor, while reducing the dose to surrounding healthy tissue. The result is higher tumor-destroying doses and fewer side effects than can be accomplished with conventional radiation therapy. This is especially important when the tumor is located close to vital sensitive organs.

Three significant advances in technology have preceded the entrance into this new era in cancer care and treatment. Recent advances in imaging allow oncologists to precisely locate and define tumors. Research and development of aiming devices assure precise delivery of the protons. And, computer technology advances permit the effective management of the delivery system to patients.

The new cancer treatment facility at LLUMC is implementing scientific advances from many of the world's leading national laboratories, universities and in-

dustries. In addition to the collaboration with Fermilab, major collaborators include Lawrence Berkeley Laboratory, Harvard Cyclotron Laboratory, the Swiss Institute of Nuclear Research, Science Applications International Corporation and The NBBJ Group.

"This collaboration has transformed physics concepts into medical care reality," says Dr. Slater, "resulting in a manifestation of Loma Linda University's fundamental mission: To Make Man Whole."

The center can serve up to 100 patients per 10-hour day, and can treat more if the number of hours is expanded. For some tumors, proton treatment times will be shorter than conventional. In addition to the technological innovations at the center, LLUMC physicians, working in concert with scientists at Lawrence Berkeley Laboratory and Harvard University-Massachusetts General Hospital, will generate data on the value of proton therapy for disease control. These data will be available world-wide.

The Loma Linda center will be a world-wide resource for research and learning about proton-beam therapy. Topics which will be investigated include: clinical research on proton beams for malignant tumors and some benign diseases in sites throughout the body; radiobiological studies; physics and engineering studies on the accelerator and beam delivery system; simulated effects of outer-space radiation; and, combining proton-beam therapy with other treatment modalities.

Based on the investment of federal funds over the past 40 years in the field of high energy physics, the 100th Congress appropriated \$19.6 million in support of this technology transfer as a grant from the U.S. Department of Energy.

The proton accelerator, when it arrives at LLUMC, will be housed in an especially designed new cancer treatment center, including three full floors underground and two stories above ground. The structure is designed around serving patients in one of five treatment rooms, including three rooms where a patient is poised on one level while one of three 35 feet in diameter gantries, weighing 90 tons, revolves around the patient to precisely direct the beam towards the target, or portal, area.

The system transports the beam to five different rooms, although only one will use the beam at a given time. Three of the rooms have a gantry system. Each gantry supports bending and focusing magnets to direct the beam, and has a counterweight for extra radiation shielding. The gantry can rotate the beam around the patient, allowing one to treat several portals. One treatment room has a stationary beam with two branches, one for irradiating eye tumors and the other for central nervous system tumors. The fifth room, used for beam calibration and basic research, also features a stationary beam.

Each treatment room will have a beam guidance system that directs the beam that actually treats the patient. The guidance system continuously monitors the beam as it sweeps over the treatment volume. Field sizes as large

as 40 x 40 cm. will be possible by scanning the beam back and forth. The beam guidance system positions the Bragg peak to conform to the size and shape of a tumor.

The real-time operating system to develop computer programs to control and monitor proton beams was developed by Wind River Systems, Inc., and is called VxWorks.

A host computer will control the accelerator and the beam transport system. A second computer, located in each treatment room, will control the beam guidance system and all other treatment facilities. This computer will verify patient identification, set operational parameters for each patient's treatment plan, and direct the host computer to deliver a specified beam. These tasks have been well-tested and executed at Loma Linda and at Fermilab.

The architect for the new center is The NBBJ Group. The general contractor is McCarthy / Pacific, Irvine, California; the project engineer is Skilling Ward Magnusson Barkshire Inc., Seattle, Washington; and the gantries are being constructed by Martinez & Turek, Riverside, California.

In February, 1988, the U.S. Department of Health & Human Services notified LLUMC that after reviewing the proton

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Guests renew acquaintance with La Sierra campus after 60-year hiatus

by Jan Holden

As the office of public relations at La Sierra campus was going about its business one warm January afternoon, we heard that we would be receiving very special guests — two people who were among the first to take part in Adventist education at La Sierra.

Later that day, our visitors toured the campus and saw some buildings they recognized, and many more they didn't. But all the while, we had the impression that they were being transported back to a time when their world was young again and life was just beginning.

In January of 1922, 12-year-old Carmen Leiva, her sister Stella, and their two other sisters came to the United States from their native country of Guatemala. Some Seventh-day Adventist missionaries had befriended their family and arranged for them to come to Southern California to go attend a new Adventist school and learn English. So the girls traveled north by themselves to begin their new life and education in America.

The name of the new school was La Sierra Academy. At that time the campus consisted of five buildings, which are now La Sierra Hall, South Hall, Gladwyn

Hall, the post office, and the health service building.

Carmen and Stella were younger than the other students, who were high-school-aged, but they were nevertheless determined to work hard and learn English. To pay their school bill, the girls took jobs on campus. Carmen worked in the laundry, and Stella worked in food service. During their free time, the girls liked to swim in the reservoir on the hill behind campus.

Sixty-seven years later, things have definitely changed. La Sierra Academy became Southern California Junior College, La Sierra College, and now Loma

Linda University. And the academy is now at a different location down Pierce Street. Smog, traffic, and concrete all have taken their places in life at La Sierra, things that in the Southern California of the 1920s would have been considered inconceivable. But through all this change, certain memories for certain people remain.

Our two visitors to the La Sierra campus that January day are two of the few who remember La Sierra as it once was. As they toured the campus, seeing it for the first time in over 60 years, the thoughts that ran through their heads must have been a combina-

tion of nostalgia and amazement. How strange it must have been for them to walk on pavement covering the very spot where they used to play baseball in front of the girls dorm. For Carmen and Stella, being back in the area where their lives in America began brought back special thoughts and feelings.

La Sierra campus hosts Math / Science Expo '89

On February 5, Loma Linda University welcomed over 120 academy students to Math / Science Expo '89. The students, coming from 12 different academies in the Southern California area, arrived on the La Sierra campus on Sunday morning, prepared to both learn and have fun.

After registration and a thorough campus tour, dean of students, Dave Osborne, and professor of physics in the College of Arts and Sciences, Ivan Rouse, PhD, welcomed students at the luncheon and orientation in the campus commons.

Practical hands-on activities kept the students involved for the remainder of the afternoon. These activities focused on the separate sciences of chemistry, physics, biology, and math and computing. Activities ranged from discussions in the physics department about proving absolute values to demonstrations of video games in the mathematics and computing department.

A banquet was provided for the students on Sunday night, followed by a rousing game of scientific pictiary.

According to various students, a highlight of the weekend was being able to stay in the La Sierra campus dorm rooms.

On Monday, Math / Science Expo '89 concluded with a farewell luncheon and evaluation. Here students and teachers were able to give their opinions of the effectiveness of the program.

When asked what he thought, one student from San Gabriel Academy replied, "It was enlightening, exciting, and different."

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This group of Indian students and employees raised \$1,600 for 35 bicycles for Central India Union evangelists.

LLU students and employees send \$1,600 to India for evangelists

To this day, the bicycle remains the most convenient mode of transportation in the villages of India. And since travel is such an integral part of the lives of missionaries there, a bicycle to an Indian evangelist means the difference between walking and talking.

That's why 30 Indian students from Loma Linda University and employees of the LLU Medical Center recently sent funds for the purchase of 35 bicycles to the Central India Union.

This money, \$1,600 (Rs. 23,000) was raised during the Christmas season by caroling from house to house. Under the direction of Pastor N. S. Bhasker-Rao, the group organized themselves to visit homes where they sang songs of praise, boosting Christmas spirit.

Gerontology conference planned by LLUSN

A one-day conference on gerontology will be held on March 20 in the Loma Linda campus Randall Visitors Center.

The conference, entitled "Aging in the 90s: Clinical Issues — A Multidisciplinary Approach," will feature keynote speaker Edward Schneider, MD, dean of the Andrus Gerontology Center at University of Southern California in Los Angeles.

Additional information concerning fees and continuing education credit may be obtained by calling the School of Nursing at 824-4360, extension 5493.

For seven days, from December 18 to 24, the group continued its program in areas of Riverside, Grand Terrace, Loma Linda, and Redlands. Bobby Bhasker-Rao, an LLU student and member of the group, says that "forty-five families were the recipients of the joyful Christmas music and good wishes offered by the singers."

The carolers hope that the missionary recipients of the bicycles will be able to win more than a hundred souls during 1989, helped in part by their Christmastime efforts.

Trustees' vote...

Continued from page 1
option.

During their discussion, the University Trustees expressed concern that after 22 years the two campuses have not become a "single university."

This concern about a "single university" has been repeatedly expressed by the University's regional accrediting association — the Western Association of Schools and Colleges — ever since La Sierra College merged with Loma Linda University in 1967.

The study committee is to be appointed by the officers of the Board of Trustees. A report by the committee will be given to the Trustees at their August 1989 meeting.

Music department sets up scholarship fund in recognition of John T. Hamilton

The department of music in the College of Arts and Sciences recently announced a plan for opening a John T. Hamilton Endowed Scholarship Fund for vocal and choral students.

As a member of the music department faculty for over 30 years stretching back to the La Sierra's first days as a four-year college, "John T.," as friends and

colleagues call him, is a true La Sierra institution.

"Since John T. Hamilton is widely known in this area," says William Chune-study, assistant professor of music, "we want to honor him, while making people aware that we are developing and expanding our vocal and choral programs here at Loma Linda University."

The music department is working to establish a \$10,000 fund by June, 1989. They are seeking contributions from former students, colleagues, and friends of John T. Hamilton and the music department. These contributions will then be matched dollar for dollar by an anonymous donor, according to Mr. Chune-study.

If the department reaches its \$10,000 goal by June, they would like to award the first scholarship at the John T. Hamilton Choral's commencement concert of the Verdi "Requiem" on June 10. This award, which would probably be seven percent of the total endowed fund, would be awarded to a music major whose area of emphasis is vocal or choral performance or education.

Ultimately, the music department hopes to be able to award four or five \$1,000 scholarships each year. "We are really attempting to develop our choral department," says Mr. Chune-study. "Already we are teaching choral pedagogy and methods and have added a madrigal group this year, under the direction of Gloria Prosper. But we also have plans to establish a new, larger, choral ensemble, probably beginning next school year."

Mr. Chune-study and his colleagues, Don Thurber, PhD, who directs the University Singers, and Gloria Prosper, are excited about possibilities of the future choral program at LLU. "We hope that the names of John T. Hamilton and Loma Linda University will attract talented vocal and choral students to join our already impressive list of music alumni."

If you are interested in contributing to the John T. Hamilton Endowed Scholarship Fund, contact Jeff Kaatz, chairman, Department of Music, Loma Linda University, Riverside, California 92515-8247, or you may send a contribution directly to the music department or the alumni office.



Mr. Phong Tran (third from left) is thanked by Loma Linda Academy officials for a large donation to the new Elementary School. Shown are, from left: M. Jerry Davis, RelD, chairman of the Loma Linda Elementary Development Committee and Building Committee, and chairman of the chaplain's office, LLUMC; Mrs. Nannette Chonkich, school board member; Mr. Tran; Thomas Zirkle, MD, chairman of the Loma Linda Academy Board of Directors and senior vice president, LLUMC; Gayle Rhoads, EdD, Loma Linda Academy head principal; and Mrs. Elsie Chan.

Loma Linda Academy receives large unrestricted donation

In January, Loma Linda Academy was the fortunate recipient of a large donation amounting to several hundred thousand dollars to be used by the administration where the need seemed greatest.

The benefactor is Mr. Phong Tran, brother-in-law of Mrs. Elsie Chan of Loma Linda, who has worked with such dedication for the academy and especially raising funds for the new Elementary School.

Although it is an unrestricted gift, it has been determined that part of it will be used to put the finishing touches on the new

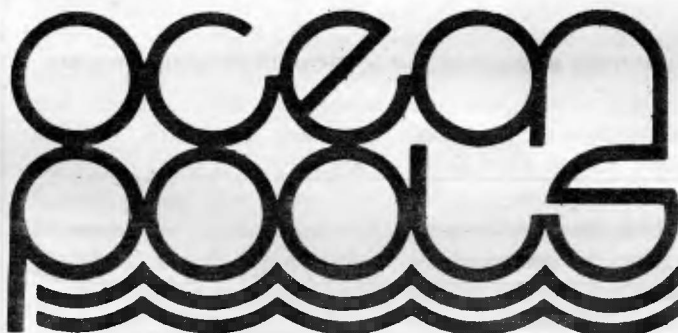
Elementary School gymnasium and the new auditorium.

In commenting on his gift, Mr. Tran said, "It is a pleasure to return to God that which He has given."

The Loma Linda Academy Board of Directors and administration are grateful to Mr. Tran for his generosity, and especially for the spirit in which it was given.

They are deliberating carefully as to how to use this large gift to benefit the school and its students in the most appropriate way.

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Jan W. Kuzma, PhD, professor of biostatistics in the School of Public Health, receives a Statistics Section Recognition Award at the American Public Health Association's annual meeting.

Dr. Kuzma receives APHA award for teaching in health statistics

Jan W. Kuzma, PhD, professor of biostatistics in the School of Public Health, was one of three persons who received the Statistics Section Recognition Awards at the recent American Public Health Association annual meeting in Boston.

Dr. Kuzma was cited "for his outstanding achievements in teaching public health statistics for more than 20 years, his valuable contribution to the American

Public Health Association, and the Statistics Section as Program and Section Chairman."

While in Boston, Dr. Kuzma presented a paper on lifestyle and longevity among Adventists. The Associated Press prepared a release of his paper and a number of newspapers around the country, including the *Washington Post*, published articles on Dr. Kuzma's presentation.

The paper has been submitted to the *American Journal of Public Health*, and a layman's version has been submitted to the *Adventist Review*.

Anderson Street at I-10 to be closed on the 23rd of February

Due to the Caltrans widening of Interstate 10 through the Loma Linda area, Anderson Street will be closed at the I-10 underpass on February 23, subject to weather.

The closure is necessary due to the removal of existing guardrails on the freeway overpass. Caltrans is concerned about debris falling onto the roadway during their removal and is therefore closing it.

Caltrans will be posting appropriate "detour" signs at the commencement of the work.

Polish oncologist / epidemiologist visits LLU...

Continued from page 3

The organization knew of Dr. Gorski because he has organized many international meetings on environmental carcinogenic problems and primary preventions.

The Institute of Hygiene, which he heads, is involved largely in research and service. Dr. Gorski's work includes health promotion and health education to help the public recognize and prevent cancer.

"My primary emphasis has been on tobacco," he stated during an interview the day before he was to return to Poland, "because smoking is such a big problem in Poland."

The institute, he said, is considered to be the anti-smoking center in Poland, a country in which 60 percent of the men and 40 percent of the women smoke. (The U.S. percentages are half that, according to Jan Kuzma, PhD, chairman of biostatistics and epidemiology in the LLU School of Public Health.) The average consumption in Poland is 3,000 cigarettes per capita per year, Dr. Gorski said.

Poland grows its own tobacco and makes its own cigarettes, importing only perhaps one-half of one percent of what is used in the country, Dr. Gorski estimated.

To help combat the serious smoking problem in Poland, Dr. Gorski serves as editor of *The Tobacco View*, an anti-smoking journal.

In addition to health education, Dr. Gorski is involved in research. His current field of research, he said, "is the study of mutagenicity and potential carcinogenicity of chemical compounds and the knowledge about mechanisms of chemical carcinogenesis, as well as the possibilities of inhibiting it by natural chemical compounds."

"It has been reported," he stated, "that ellagic acid, a naturally occurring plant phenol, inhibits the mutagenicity and carcinogenicity of some carcinogenic compounds. In our studies, it has been proved that ellagic acid inhibits the mutagenic effect of nitroso compounds and mycotox-

ins. The mechanism of this inhibitory process is very complicated. It is being studied by Professor Teel in his laboratory, and he has shown that ellagic acid has the properties of binding with carcinogenic metabolite compounds and also with DNA."

(DNA, or deoxyribonucleic acid, is the carrier of genetic information for most organisms.) "Ellagic acid is found," Dr. Teel says, "in most soft fruits, including strawberries, grapes, and raspberries, and also in certain nuts."

"Professor Teel's studies are of great importance for our future investigations," Dr. Gorski pointed out. "My main task while visiting his laboratory was to learn — by participating in ongoing research activities — about the assays for ellagic acid and its absorption and disposition in laboratory animals. I am interested in the mechanisms of the antimutagenic and anticarcinogenic action of ellagic acid

and the possibilities of practical usage of this phenomenon in cancer prevention, as well as in dissemination of knowledge on this subject."

Dr. Gorski felt that his visit had been very worthwhile. "I am very satisfied from this visiting of Loma Linda — your city," he said. "I want to say 'Thank you very much' for the warm hospitality."

"It was an honor to have Dr. Gorski visit our University," Dr. Teel said. "He is not only an excellent scientist, but a kind, generous person."

Dr. Gorski expressed his hope that future cooperation with LLU would be possible.

"We want to obtain data," he explained, "for future studies on the protective effect of the natural phenol, ellagic acid, as it relates to tobacco-related cancerogenesis."

He also would be interested in having Dr. Teel visit Poland, he said.

Wind River Systems donates software...

Continued from page 3

puter programs to control and monitor proton beams used in cancer therapy.

At the ceremony, Ron Anderson, senior vice-president at the medical center; James M. Slater, MD, director for the proton-therapy-facility project; and Jon W. Slater, computer scientist, accepted the software presented by Wind River's president and chief executive officer, Jerry Fiddler.

"Wind River's donation," Mr. Anderson said, "will be one of the keys to achieving the proton-beam facility's mission of pioneering more effective therapies against cancer and other diseases, with significantly reduced patient side effects. Wind River's gift is truly an example of the most advanced technology working in the human interest."

The main advantages of proton-beam cancer therapy include much more accurate targeting of tumors, sharply reduced damage to healthy tissue, and correspondingly lower patient side effects than are attainable through conventional irradiation. Proton beams can be made to travel to a specified depth in the body, relatively unimpeded, before releasing their energy. X-rays and gamma rays, by contrast, release most of their energy near the body's surface.

Loma Linda's proton-therapy facility will consist of a new building at the medical center containing complete facilities for proton-beam treatment. A synchrotron — a type of particle accelerator — will generate a proton beam that will be channelled into four treatment rooms and

a calibrations room.

A support complex will house CT scanners and magnetic resonance imaging equipment to precisely locate targets for proton-beam therapy in patients. Operating rooms adjacent to the proton-beam-treatment rooms will allow for proton therapy in conjunction with surgery.

The proton-therapy facility is being developed in cooperation with Fermi National Accelerator Laboratory of Batavia, Illinois, with financial assistance from the federal government and private donors. Wind River's contributions include a software development license, source code, and software target licenses.

Wind River Systems, Inc., develops, manufactures, and markets networked real-time operating systems. Wind River's VxWorks product line has been used in various fields, including spacecraft, industrial automation, medicine, transportation, and the sciences.

Dr. Andreasen...

Continued from page 1

The Christian Use of Time, Dr. Andreasen has written numerous articles for professional and popular publications.

Dr. Andreasen is married to the former Demetra Lougani of Athens, Greece, who is a medical social worker. They have one son, Michael.

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March 8



Exquisite polished geode spheres are but one of the museum's prized collections.

World Museum of Natural History slated for opening by La Sierra homecoming

"We expect to have the museum ready for visitors in time for the La Sierra campus Alumni Homecoming, March 9-12," says William Allen, PhD, director of La Sierra campus' World Museum of Natural History.

"Homecoming has always been a special occasion on campus, and we are especially eager to have the museum open for the alumni."

In 1968, E. A. "Billy" Hankins III, MD, a graduate of the College of Arts and Sciences and the School of Medicine, approached the administration of LLU with the idea of setting up a public museum of natural history on the La Sierra campus. Dr. Hankins had assembled and prepared extensive collections of mounted Southeast Asian birds and mammals while living in Bangkok, Thailand, from 1966 to 1968. This became the nucleus for the museum.

Dr. Hankins worked with the staff in laying plans for the development of a museum which would be unique in both its scope and its methodology.

The museum officially opened on March 14, 1971, with a display of Dr. Hankins' collections of mounted birds and mammals from Southeast Asia. Since then the museum's wildlife collections have been growing at a rapid rate, with new species from all over the world continually being acquired and prepared for display. Today the vertebrate collections — 1,000 completed specimens and another 2,500 in process — contain many rare and endangered species that have been

acquired from zoo mortalities. One spectacular from the world of amphibians and reptiles is a nine-foot long Komodo Dragon.

In the mid-seventies several fine collections of minerals and petrified wood slabs were donated to the museum. Today, the museum boasts the largest collection of mineral spheres in the world. Unusual spheres in the collection include the "Green Beauty," a 396-pound verde antique from Victorville, California, and many geode spheres. Leo Berner is believed to be the only person in the world to have attempted to cut and polish goedes into spheres, and the museum holds the bulk of his delicate work. An American Tiger eye sphere in the collection is considered the largest and finest specimen of this mineral ever found.

The mineral collections also include the Prest study collection; minerals from different parts of the world, including a large silver specimen from Batapilas, Mexico, and a brilliant orange wulfenite from Arizona; minerals from California, including the Minette borates; a collection of meteorites and tektites; and fluorescent minerals. The small gemstone collection contains a 837-carat, faceted, natural blue Topaz. The Rittenhouse collection of petrified woods forms the backbone of the museum's fossil collection.

The museum also maintains a fine collection of anthropology materials. Included are artifacts from primitive cultures of Africa, New Guinea, and South Amer-

ica. Contained in the South American collection are some of the finest-known artifacts from eastern Peruvian Indian cultures, according to John Elick, PhD, the museum's curator of anthropology.

In the fall of 1984, a plan to house these collections was undertaken and developed in the newly constructed Cossentine Hall on the La Sierra campus. Oak display cabinets were constructed and temporary displays set up. In the fall of 1988, Kent Beaman was given a full-time appointment to bring the displays into final form. The museum's staff and the Board of Trustees of Loma Linda University have agreed to an unlimited development plan for the museum that would, with the realization of sufficient funds, result in a fully staffed museum that would realize its goal of becoming one of the finest museums of natural history in the United States.

"Activity at the museum has quickened since Mr. Beaman was selected to work full-time this past fall," Dr. Allen continues. At the time of Alumni Homecoming, some displays will yet be incomplete, and a public grand opening is not expected until the fall of 1989. But Dr. Allen says, "Visitors are always welcome and are given personally guided tours; and beginning this spring we will be able to open the museum at regularly scheduled times."

Reprinted with permission from the World Museum of Natural History's Semi-Annual Newsletter of February 1989.

Frau Doktor Clara Schumann is featured at Concert Series '89

Frau Doktor Clara Schumann made a visit to La Sierra campus on Saturday, February 4. Actually, Leigh Kaplan visited campus. But the mistaken identity is easily understood under the circumstances.

As part of Concert Series '89, actress / pianist Leigh Kaplan presented her one-woman show entitled "CLARA: A monodrama with Piano Performance." Ms. Kaplan, who wrote and performed the play, has appeared in numerous recitals, on radio, television, and as a soloist with symphony orchestras, including the Boston Pops.

The show introduces Clara Schumann, wife of composer Robert Schumann and celebrated

pianist in her own right. Set in Europe in 1860, the play opened with Clara refuting the unauthorized biography of her husband in a private solon.

Ms. Kaplan also dramatized portions of Clara's life, including her father-dominated childhood, her years of stormy courtship and passionate marriage to Robert, and her role as the mother of seven children.

In addition, the play told about Clara's long-standing friendship with Johannes Brahms who was not-so-secretly in love with her and who studied composition with Robert.

In the play's conclusion, Clara addressed the question of why she did not visit Robert when he was admitted to the insane asylum where he ultimately died.

Not only was the historical drama unique and intriguing, but the program was also enhanced by Ms. Kaplan's performances of piano compositions by both of the Schumanns, Bach, Brahms, and Scarlatti.

Future concerts include the Chicago Symphony Chamber Ensemble on March 4 and Toccatas & Flourishes on April 8. For more information call (714) 785-2000.



Kerby Carambot

New student officers take leadership roles

A new slate of Student Association officers has taken leadership at Loma Linda Academy, according to Harley Boehm, work experience and testing coordinator at the Academy.

The new president is Kerby Carambot, son of Mr. and Mrs. George Carambot. The senior Carambot is director of planned giving at Loma Linda University.

Kerby Carambot's fellow officers are Michael Simental, executive vice president; David Bolivar, social vice president; Wilam Wong, religious vice president; Chris Rubano, treasurer; Denise Dyer; Joey Anderson, sgt.-at-arms; Tito Johnson and Robb Martinez, class coordinators.

The Student Association officers are responsible for general social and religious activities for the entire student body and the student Senate.

They are enthusiastic about their jobs, and hope to perform to meet the expectations of their peers and faculty.

"We have a great deal of confidence in our student leaders, and feel that they will provide good leadership for our student body," says Tim Erich, one of the faculty sponsors.

Social relations gets new name; now sociology and family studies

The department of social relations has recently received approval to change its name to the department of sociology and family studies.

Antonius Brandon, PhD, professor and chairman of the department, says that the old name, though fitting when chosen, had now become too vague.

The old name was purposefully non-specific to reflect the new merger between anthropology / sociology and marriage and family therapy. In the five years since then, the merger has become established and child development has been added to the department.

Dr. Brandon feels that the new name is academically precise, and says, "We hope to restructure the undergraduate majors to reflect the academic integration of what the department has become."

The department of sociology and family studies works out of both the College of Arts and Sciences on the La Sierra campus and the Graduate School on the Loma Linda campus, and claims nine full-time faculty and staff besides Dr. Brandon.

The department also operates a child development center and a child learning center.



In celebration of National Children's Dental Health Month, the Loma Linda University School of Dentistry hosted several activities for area children, including tours, poster contests, and display booths, on Friday, February 3, at Prince Hall. Booth displays included oral hygiene and brushing techniques; a "Visit to the Dentist", with what these visits entail (x-rays, check-ups, fluoride treatment); braces; dentally healthy foods and snacks; prizes, with balloons, pamphlets, and stickers. School of Dentistry students dressed in costumes gave out "sparkle" toothpaste and demonstrated proper dental care to the youngsters. As a special treat,

children were greeted at the entrance to the School with the "Tooth Brush Tank," a large army carrier-tank sporting a huge toothbrush as a weapon, with "rounds" of toothpaste, provided by Merv Ellstrom, DDS, instructor of pediatric dentistry. John Peterson, DDS, chairman of pediatric dentistry, and pediatric assistant Denise Edwards presented new mothers at LLUMC with packages of dental care products for their babies. The event was coordinated by Jacob Kun-Young Lee, DDS, assistant professor of pediatric dentistry.

Black students / alumni events to feature actor Clifton Davis and politician Willie Brown

Clifton Davis will be featured in a free concert sponsored by the Black Health Professional Student Association of Loma Linda University on Friday, March 3. Donations will be accepted at the concert for scholarships for Black students.

The Black Alumni of LLU have established these scholarships for current students and for high caliber prospective students who feel Loma Linda has something special to offer.

"The Black Alumni are working harder than ever to reach the \$100,000 goal," says Karmyn Jones, 1984 graduate of the College of Arts and Sciences, and scholarship campaign director. "The number is small because of the small number who have attended and graduated from LLU. Your contribution can help this number to increase."

In addition to planning a fund-raising campaign, the alumni from both campuses are sponsor-

ing their 8th annual banquet, to be held Saturday, March 4, at 7 p.m., at the Weston Bonaventure, 404 S. Figueroa St., Los Angeles.

The Honorable Willie L. Brown, Jr., speaker of the California State Assembly, will be featured at the banquet.

Tickets for LLU students are \$25; non-student tickets are \$40. Students should inquire at student affairs. For more information, call (714) 824-8737.

Ethics colloquium...

Continued from page 1

who attended the colloquium. He explains, "The antiprogesterone properties of RU486 suggest gynecologic and obstetrical uses for the compound other than abortion. It has potential for medical treatment of endometriosis, a condition affecting approximately 10 percent of gynecological patients, which can cause a variety of symptoms including pelvic pain and infertility. It acts by enhancing atrophy and spontaneous healing of the endometriotic tissue."

When used to induce abortion it acts by the same mechanism as occurs in spontaneous abortion where progesterone levels fall and the uterus expels the embryo.

This action is also similar to that of oral contraceptives, which don't just prevent ovulation or conception, but also affect the uterus, so it is not hospitable to implantation.

Dr. Sakala says, "RU486 has also been used not only to induce labor where the fetus has died in utero, but also in normal viable

pregnancies. Short-term studies of live newborns delivered have shown no adverse consequences. In clinical trials it has been used to soften and ripen the cervix prior to induction of labor. In this action, it appears to be uniquely superior to other available agents.

Gerald Winslow, PhD, professor of ethics, School of Religion, points out that "the human body rejects more than half of embryos for one reason or another."

Dr. Winslow says that if RU486 is made available on a prescription basis in the U.S., it will "heighten the need for personal reflection on abortion, because this will make abortion simpler, safer, earlier, and cheaper."

Dr. Baulieu believes that 40 to 50 million surgical abortions are performed around the world each year. Of these, thousands of patients develop complications from the procedure. RU486 decreases risk of infection and complications, especially in the third world, where the risks are highest.

Dr. Bull notes that "RU486 complicates a discussion of the ethical issues surrounding abortion in a variety of ways. Depending upon when it is given, it may act to prevent implantation, it may act to interrupt the implantation process, or, if given later, it may cause expulsion of the implanted embryo. Thus, actions that might be deemed ethically acceptable by some groups as merely an alternative form of contraception grade imperceptibly into actions which are violently opposed by many pro-life organizations, the only difference being the precise time in the menstrual cycle when the drug is administered."

Dr. Bull had the opportunity to discuss other topics with Dr. Baulieu during travel to and from the meeting. He notes that "Dr. Baulieu was well informed about Adventist history. He expressed considerable interest in the origins of the denomination and the reasons for its interest in health matters."

Fifth Annual Faith Festival

March 18 - 8:30 a.m., 11:15 a.m., and 4 p.m.

University Church

Theme: Wholeness

Purpose: to praise God for the gifts of health, healing, and wholeness.

Guest speaker: Dr. Paul Brand, surgeon, lecturer, author, and missionary to India, world-renowned for his treatment of leprosy and his reconstructive surgery on hands.

Guest soloist: Adrian Pressley, internationally known bass and former member of the gospel group "Harvest Celebration."

Sponsored by Loma Linda University Medical Center and Adventist Health System / Loma Linda for employees and for residents of Loma Linda and surrounding communities.



Edwin Krick, MD, dean of the School of Public Health, will be "Running for Research" in the LA Marathon on March 5. Students, faculty, and alumni are being asked to sponsor the dean per mile in the run. Funds raised will go towards research at the School. Also participating in the marathon will be (from left): Bess James, 79, a marathoner from San Diego; Mavis Lindgren, 81, a Seventh-day Adventist who has run 50 marathons since the age of 70; Dr. Krick; Wes Youngberg, DHSc, an instructor at the School; Ronald Ruskjer, EdD, associate professor of health science and health administration; and David C. Nieman, DHSc, professor of nutrition, SPH. The morning this picture was taken, both of the women runners were tested on the treadmill by Dr. Nieman.

Code Red features University personnel

Code Red: Medical Laboratories in Crisis, a 30-minute documentary video targeted at public television, is featuring several faculty and employees of Loma Linda University.

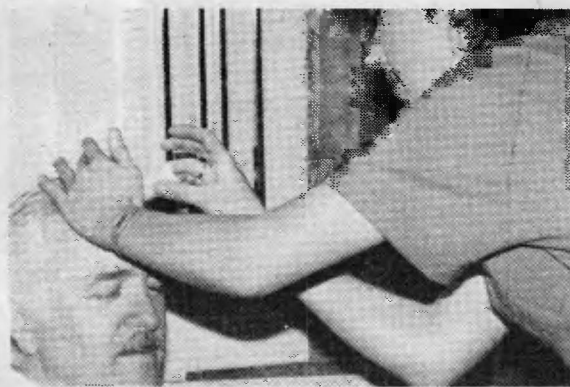
The video stresses the increasing shortage of medical technologists and cytotechnologists, and the continuing request for their talents. The project was funded by the American Society of Cytology, LLU School of Allied Health Professions, LLU medical technology alumni, and the department of pathology, School of Medicine.

"The need for medical laboratory technologists over the next 12 years will demand a minimum 24 percent growth rate, with 57,000 new jobs," says Nikki Mead, director of recruitment for SAHP, and academic consultant for *Code Red*. "There have been a number of program closures, hence, the number of graduates has drastically decreased. The need is at a critical state. This documentary is to call attention to the existing crisis few people recognize."

Angie Westengard, producer, got the idea for this subject from Dr. David Kaminsky, video consultant and on-camera pathologist from Eisenhower Medical Center in Rancho Mirage. The narration is co-written by Mrs. Westengard and her husband Jim, a medical technologist at Loma Linda University Medical Center. Mrs. Westengard has been involved in television production for 12 years and has focused on medical themes for the last three years.

Worldwide in scope, the video will include interviews with Dr. Patricia Saigo, pathologist from Sloan Kettering Memorial Hospital in New York; Dr. Joseph Keffer, president of the American Society of Clinical Pathologists, and medical director of Nichols Institute in San Juan Capistrano; Dr. Torsten Lowhagen, a pathologist from Karolinska Institute in Sweden; and Senator William Cohen of Maine. The program will also feature Jackie Papillo, director of recruitment for the American Society of Cytology, and Dr. Diane Solomon, pathologist from the National Cancer Institute.

Adding to this group from Loma Linda University are interviews with Leonard Bailey, MD, chief of cardio-thoracic surgery, LLUMC, and professor of surgery, School of Medicine (and a former medical technologist); John Lewis, PhD, chairman of clinical laboratory sciences, SAHP, associate professor of pathology and medicine, SM, and serving as video consultant for medical technology; Sandra Nehlsen-Cannarella, PhD, director of the immunology center, LLUMC; Marlene Ota, program director of



Technical crew evaluate recent taping; medic Martin Miran and pilot Thomas Federoff with San Bernardino Sheriff's Department helicopter; makeup artist prepares Dr. Bailey for filming (top); Dr. Bailey consults with Nikki Mead, right, Angie Westengard, and crew (below).

cytotechnology, SAHP; and several medical technologists and cytotechnologists from the Medical Center.

Technological expertise in editing and videoing is being provided by the Annenberg Center for Health Sciences in Palm Desert, with assistance from LLU media services.

Sheriff Tidwell and the San Bernardino Sheriff's Department

generously donated the use of a Sheriff's helicopter and its crew for a landing scene on LLUMC's heli-pad.

After production, Loma Linda University will be able to use the video for recruiting purposes, says Joyce Hopp, PhD, dean, SAHP. This could prove beneficial to LLU's clinical laboratory program. The School of Allied Health Professions offers bachelor

of science degrees in cytotechnology and medical technology. Five students are accepted into the cytotechnology program each year, and 16 into medical technology. This year, neither program has filled all available positions.

"Due to the dropping pool of students over the next five years, things will likely get worse before they get better," says Dr. Hopp.

For those students who do choose an allied health profession, the career opportunities are overwhelming. "Our students can walk out the door and have a job," Dr. Hopp states.

"We are extremely excited about the positive exposure our school will receive from this outstanding professional production," concludes Ms. Mead.



The opening of the Student Access Microcomputing Center (SAMC) at the LLU library, Loma Linda campus, took place Tuesday, February 7. The ribbon cutting ceremony was hosted by Maynard Lowry, library director, who gave special thanks to Art Walls, chairman of industrial arts, College of Arts and Sciences, and Art Geibel, sophomore, School of Medicine, for their encouragement to begin the project. Helen Thompson, PhD, vice president for academic administration, and Norman Woods, PhD, president, were also recognized for their approval and financial support. Apple Computer provided eight Macintoshes and a Laserwriter NTX to complement the Macs purchased by the University. Representing Apple at the opening were Ray West, regional manager for education in Orange County, and Susan Daruty, university account representative. An "apple" reception was held immediately following the ribbon cutting.

ALUMNI CONVENTIONS: DENTISTRY, MEDICINE, PUBLIC HEALTH

Dentistry

The 29th Annual Alumni-Student Convention for School of Dentistry will be held March 5 to 13, and will include a week of lectures, sports, spiritual rejuvenation, and a special vegetarian banquet.

Special honors classes at the banquet to be held at Maruko Hotel and Convention Center are 1979, 1969, 1964, and 1959.

Continuing education courses will include oral pathology for the general dentist, esthetic dentistry, implant symposium, applying the systems approach to clinical orthodontics and organizational development of an orthodontic office, the clinical use of retentive techniques in dentistry, differential diagnosis of oral disease for today's dental hygienists and assistants, and risk management.

Several mini-clinics will also offer credit on a variety of topics: implantology, pedodontics, periodontal surgery, orthodontia, restorative, endodontics, handpieces, prosthetics, and magnetic retention.

Special luncheons during the week will be held for women in dentistry, and dental hygienists and dental assistants, as well as a Sabbath homecoming luncheon.

Four prayer breakfasts will add to the spiritual aspect, as will Friday night Vespers, Church at Study and Church at Worship on Sabbath, and a Saturday afternoon sacred concert.

The Women's Auxiliary has made plans to attend a presentation at the Betty Ford Center in Palm Desert. Other activities will include seminars on women in transition and financial planning for women. The Auxiliary will also host a homecoming brunch.

Those interested in attending the School of Dentistry event

should contact dental alumni at (714) 824-4399.

Medicine

The School of Medicine Alumni Association's 57th Annual Postgraduate Convention (APC) will be held February 25 through March 1.

"APC will have a new look this year," says Carolyn Wieder, convention manager. "We listened to alumni concerns about the conflict in timing between APC and California Medical Association meetings. This year, we're holding APC earlier to avoid any conflict."

"We also have seen a need to shorten APC," she continues. "Thursday has been dropped from the schedule, and a more finely tuned program has been planned."

Greater emphasis is being given this year to specialty programs. One- or two-day seminars taught by distinguished faculty will be offered in anesthesiology, emergency medicine, gynecology, nutrition, ophthalmology, orthopaedic surgery, pediatrics, psychiatry, radiology, and surgery.

In addition to the specialty emphases, updates will be offered each day in medicine, preventive medicine, and primary care. Also, seminars of general interest will be presented on bioethics, law, marriage and family, and microcomputers. A variety of roundtable luncheons will be presented on Friday, Tuesday, and Wednesday.

The APC program has been approved for 32 hours of category one CME credit from the American Medical Association and the American Academy of Family Practice; eight hours from the American College of Obstetrics and Gynecology; and five hours from the American College of Emergency Physicians.

Scientific exhibits will be held at Randall Visitors Center, Sunday through Wednesday. Technical exhibits will be held in Gentry Gymnasium on Sunday through Tuesday.

There is no charge to visit the exhibits, but all visitors should stop at the registration desk to pick up a badge.

"We haven't forgotten the traditions that give alumni a chance to spend time with their classmates and friends," says Mrs. Wieder. "Most classes will be holding class reunions on Sunday night. Throughout the week, other popular gatherings will take place, including the golf tournament, alumni/faculty banquet, fellowship luncheon, women physicians' potluck, alumni fund SM donor reception, and the highlight of the entire week — the APC banquet."

"This year, as it was last year," Mrs. Wieder states, "the banquet will be held in the Grand Ballroom of the Disneyland Hotel on Tuesday evening. The All-American Boys Chorus, under the direction of Fr. Richard Coughlin, will be the featured entertainment. Each morning before lectures begin, A. Graham Maxwell, PhD, professor of New Testament at the School of Religion, will present morning devotionals. The silver anniversary Class of 1964 and the golden anniversary Class of 1939 will present Friday evening vespers and participate in the Sabbath School and worship services on Saturday. Richard Neil, MD, assistant dean, School of Public Health, will teach the Sabbath School lesson.

The morning message will be delivered by Louis Venden, PhD, senior pastor of the University Church. Sabbath afternoon vespers will feature alumni talent in an Auxiliary outreach benefit concert.

Health

"Healthy People, Reality or Illusion" is the theme of this year's School of Public Health Update convention. Sponsored by the School's Alumni Association, Update will be held March 2 through 5 at the Randall Visitors Center.

The keynote address, "A population that does not smoke is a healthier population — how and why," will be delivered by the Honorable Jake Epp, PC, MP, BA, Minister of Health and Welfare of Canada, on Thursday, March 2.

Other Update speakers, chosen from among the foremost authorities in their respective fields, will explore some of the links between nutrition and disease.

Update will offer 23 units of Continuing Education Credit in the areas of nursing, dietetics, medicine (category I), nursing home administration, osteopathy (category I-B), and general.

Also in the program will be a three-part series on stress and youth suicide by Richard Neil, MD, assistant dean, associate professor of health promotion and education, School of Public Health.

Mervyn G. Hardinge, MD, DrPH, PhD, dean emeritus, School of Public Health, will present a "morning nugget" on Thursday, Friday, and Sunday.

After the keynote address, James W. Anderson, MD, MS, will present "Nutritional Approaches to Preventing and Reversing Chronic Diseases." Dr. Anderson is chief of metabolic-endocrine section, VA Medical Center, professor of medicine and clinical nutrition, University of Kentucky.

Gary Fraser, MB, ChB, PhD, will present "Diet and Chronic Diseases in the Adventist Health Study." Dr. Fraser is a cardiology consultant, Jerry L. Pettis Memor-

ial VA Hospital, and professor of epidemiology, School of Public Health.

Monday evening Sherman A. Nagel, Jr., MD, will give the Erwin Crawford Memorial Lecture. Dr. Nagel is professor of biology, emeritus, at Pacific Union College.

Carla Bouchard, RD, MS, from the San Bernardino County department of public health, will present "Promoting Community Dietary Changes in Order to Reduce Risk of Cancer." Following her will be Steven May, PhD, MA, director of behavioral medicine, Health Management Resources, Western Region, Los Angeles, who will speak on "Building a Healthier You."

Raymond R. Neutra, MD, DrPH, chief, epidemiological studies section, California department of health services, will present the Rolland Phillips Memorial Lecture with a talk entitled "Cancer Clusters: Scientific and Public Health Implications."

Gerald Winslow, PhD, professor of ethics, School of Religion, will lecture on "When is Enough, Enough? Ethics at the End of Life."

On Sunday, the program will continue with a presentation by Patricia Johnston, DrPH, MS, RD, director, DrPH program, associate professor of nutrition, School of Public Health, on the World Vegetarian Congress.

Edward J. Masoro, PhD, professor and chairman, department of physiology, University of Texas, Health Science Center, San Antonio, will speak on "Food Restriction in Rodents — A Tool for the Study of Aging."

For information, contact the School of Public Health Alumni Association, Nichol Hall room 1516, Loma Linda, CA 92350, or call (714) 824-4943.

School of Nursing Continuing Education Courses**"Aging in the '90s: A Multidisciplinary Approach to Clinical Issues of Aging"**

March 20, 1989

Featured speakers: Edward L. Schneider, MD; Delip V. Jeste, MD; Martin Levine, JD; John Morley, MD

"Dealing With Difficult People"

March 1, 1989

Featured speaker: Judith E. Segal, PhD

For further information, contact the School of Nursing continuing education office
(714) 824-4360, extension 5493

FACULTY NOTES

• The *Journal of Adventist Education* will publish two articles on Bible doctrines written by **Richard Rice, PhD**, professor of theology, in its continuing education series.

The first, entitled "The Christian Understanding of God and Human Existence," appears in the December 1988 / January 1989 issue of the journal. The second, which deals with the mission of the church, the Sabbath, and eschatology, will appear in the February / March 1989 issue. The articles are adapted from Dr. Rice's book, *The Reign of God*, which serves as a textbook in Christian doctrine classes at a number of Seventh-day Adventist colleges.

Adventist teachers can receive continuing education credit from the North American Division office of education by reading and taking an examination over each article.

• From January 13 to 15, **Madelyn Haldeman, PhD**, associate professor of New Testament in the School of Religion, participated in a weekend preaching tour in Portland, Oregon.

• In the School of Education, **Cheryl Simpson, PhD**, chairman of the department of educational psychology and counseling, attended the California State Department of Education's Conference for Counselor Educators and County Coordinators from January 26 to 27.

• **Vernon Koenig, EdD**, professor of administration and leadership in the School of Education, will attend a one-day seminar entitled "In Search of Excellence" in Riverside on February 23.

• **Ervin Bigham, EdD**, professor of curriculum and instruction in the School of Education, attended the Pacific Union Conference's Committee on Secondary Curriculum from January 31 to February 2 in Thousand Oaks.

• **Jean D. Sibonga, PhD**, a 1988 biochemistry alumna from the Graduate School, recently received the Clinical Investigation Student Subspecialty Award at the Western Medical Student Research Forum banquet. The award, consisting of \$100 and a commemorative plaque, was in recognition of her abstract entitled "Impairment of bone formation (BF) in response to skeletal unloading is associated with a bone derived growth factor deficit."

• **William Jarvis, PhD**, professor of preventive medicine in the School of Medicine, presented "Quackery: A National Scandal" before the first quarterly meeting of the Riverside Medical Association on January 18. On January 27, he spoke on "Food Faddism, Cultism and Quackery" at a workshop sponsored by the Ontario, Canada, Dietetic Association at Thunder Bay. On February 10, Dr. Jarvis was a presenter and panelist in the section on "Herbal and traditional remedies: Are they all good? Are they all bad?" of the Asian Pacific Health Care Conference on Hazardous Remedies sponsored by the Oriental Herbal Association, Southeast Asian Health Project, United Cambodian Community, Inc., United Thai Planning Council, AARP, Better Business Bureau, California Dietetic Association, and the Los Angeles County Department of Health Services. The conference was held at the California Museum of Science and Industry in Los Angeles.

• **Stephen G. Provonsha, MD**, Center for Health Promotion, has been awarded \$27,996 for a National Research Service Award from the National Cancer Institute.

• **Ralph E. Cutler, MD**, professor of medicine in the School of Medicine, has been awarded \$27,005 from Hoffman-LaRoche, Inc., for a project entitled "Intervenous Fleroxacin in Serious Infections."

• **Clifford L. Jaqua, EdD**, chairman of the department of administration and leadership in the School of Education, served on the Western Association of Schools and Colleges accrediting commission visiting team for the Los Alamitos High School, March 5 to 8. He will be teaching educational organization and leadership classes on the campuses of Southern College (Tennessee) and Canadian Union College (Ontario) as part of the extended campus program of the School of Education, department of curriculum. He will be at Southern College from June 5 to 13, and at Canadian Union College from July 17 to August 2.

Lyndon Taylor, from Juilliard School of Music, will present violin recital on March 6 on La Sierra campus

Violinist Lyndon Taylor, currently a doctoral student at the Juilliard School of Music in New York and on deferred appointment at Loma Linda University, will present a violin recital on Monday evening, March 6, at 8:00 p.m. in Hole Memorial Auditorium on the La Sierra campus.

Admission is \$5. Tickets may be purchased at the department of music or at the door the evening of the concert. Assisting him on the piano will be Miss Nina Scolnick, an assistant professor of music at the University of California, Irvine. For further concert information, call the music office at 785-2036.

As a former student here, Mr. Taylor is no stranger to this area. Upon completion of an undergraduate degree in chemistry at Atlantic Union College in



Lyndon Taylor

Massachusetts, he was accepted into, and completed two years of study in the Loma Linda University School of Medicine. With the encouragement of his friends, and his own love for music, he left medicine and began to pursue a career in this field. While serving on the string faculty at

Redlands University, he completed a master's degree in violin performance at California State University, Northridge, as a student of Kathleen Lenski.

Currently in the second of a three-year program at the Juilliard School as a student of Dorothy Delay, Mr. Taylor will join the music faculty here at Loma Linda in the fall of 1990. During this academic year and next, he will be on campus for one week each quarter to teach lessons and master classes, perform chamber music and recitals, and assist in promoting the music department and recruiting students.

This June, along with the help of other LLU string faculty, violist Lucille Taylor, and cellist Jeffry Kaatz, Mr. Taylor will help inaugurate the first annual Chamber Music Festival at Loma Linda University. This one-week festival will provide an opportunity for professional Adventist musicians to rehearse and perform chamber music, as well as discuss common concerns. At the conclusion of this festival, Jon Robertson, music director and conductor of the Redlands Symphony, will lead this group in a gala chamber orchestra concert.



ANNIE, the fifth annual musical production of the La Sierra Academy Performing Arts Society, will be performed Thursday, March 2; Saturday, March 4; Sunday, March 5; and Monday, March 6, at the La Sierra Academy gymnasium, 4900 Golden Avenue. All performances are at 7 p.m. except for Sunday's which is at 2 p.m. The annual musical raises funds to support the academy string program, buy new instruments, assist students in music lessons, and generally promote artistic learning at La Sierra Academy. Call (714) 351-1445 now to reserve your tickets. Tickets may also be obtained at the door. Pictured are the "orphans" and Amie Chilson starring as Annie.

TODAY

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Editor-in-chief: W. Augustus Cheatham

Managing editors: Waldena Gaede
Richard Weismeyer

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